

PAGE 2 SUNDAY. NEW YORK TIMES. 5/2/67  
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## *ABM File* **Soviet Antimissile System Spurs New U.S. Weapons**

**Improved Nuclear Warheads Designed  
to Penetrate Wide Defense Network  
—More Sweeping Changes Seen**

By HANSON W. BALDWIN

The development of new nuclear warheads and major changes in United States missile technology are being accelerated partly as a result of the Soviet deployment of anti-ballistic missile installation.

Some officers who have studied intelligence data about the Russians' installations fear that their defensive system may be based on what one described as the "zapp" effect—such as the ray gun in the comic strips—of high altitude nuclear explosions.

The tremendous burst of energy resulting from multi-megaton explosions in the vacuum of space could neutralize or destroy incoming warheads.

It is for this reason that newly designed missile warheads, with improved electrical circuits, better materials and some shielding against the neutron, electromagnetic and thermal effects of a nuclear blast, are being produced.

The annual report of the Atomic Energy Commission, issued a few days ago, mentioned a continuing modification program for "some warheads," with the objective of "further decreasing warhead vulnerability to nuclear environments generated by antiballistic missile countermeasures.

The report's sober statement was regarded as an understatement of the intensive work being done to protect United States warheads and to assure a continuing capability to penetrate Soviet defenses.

But the paucity of accurate information about effects of high-altitude atomic explosions and the atmospheric nuclear test ban that outlaws such developmental tests mean, in the words of one expert, that "there is just no way to know if the solutions are valid."

The beginnings of an even fractionally effective Soviet an-

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# Deployment of Soviet Antimissile Defensive System Curs U.S. to Design Better Atomic Warheads

THE NEW YORK TIMES, SATURDAY, FEBRUARY 5, 1967.

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Antimissile system and the current development by the United States and the Soviet Union of what is known as antimissile defense systems. What is known as antimissile defense systems represent the experts say, such major technological advances that relations to them, by both powers, are inevitable.

There had other new developments in the Soviet antimissile defense systems, however, a factor that will force sweeping strategic, political and economic consequences.

Many of these often believe that the Soviet Union will develop a missile defense system that will be the equivalent of their antimissile missile system, much less to dismantle those installations already completed.

## More Talks Likely

They think it likely that Moscow will prove quite agreeable to continued discussion of powers refrain from deploying antimissile defense systems. But they do not expect the Russians to halt the development and deployment of their own system.

There are thus some worry that atracted start of a United States defensive system.

In any case, they hold that recent technological developments in rocketry and electronics have marked the end of an era of stability and to maintain the uneasy balance of terror, or the capability of each power to devastate the other no matter what the other does.

Major developments are expected in the near future, particularly in the field of defense. It has tended to re-provide as much security as possible for the people and territory of the United States, however, will be complicated, not only by differing evaluations of the Soviet defensive system and by reports of their work on multiple missile warheads, each with individual guidance, experts say.

In other words, the Soviet Union is developing a missile defense system, whether we like it or not.

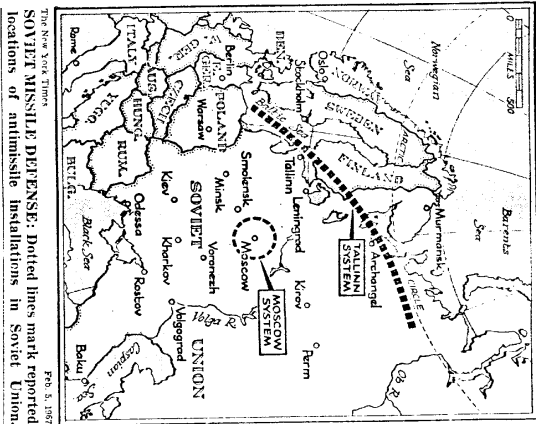
This military point of view has been restated so far by Secretary of Defense Robert S. McNamara, who has also said that the United States has a missile defense system is not worth the cost.

He has said that the United States remains now and for the foreseeable future, "assured of victory" on the Soviet Union, regardless of what the Soviet Union does first.

Already in hand.

It is in hand to counter any of an antimissile missile system. Some of the launching stages and radars are believed to be operational, more sites are being built and the entire Moscow system probably will not be fully ready for six to 18 months.

The sharp differences of opinion in the intelligence community on the Soviet missile approach to nuclear attacks are so great that it is not certain that this is so.



United States is thought to be developing a kind of out-of-the-box defense against Soviet missiles. There is considerable speculation that the Soviet Union has developed a missile defense system, but there is no agreement on what they are for. The Soviet missile defense system appears to be designed to intercept a single missile, or a small number of missiles, in a single stage. The Soviet missile defense system is believed to be based on a long-range radar system, which can detect and track missiles at a distance of 1,000 miles. The Soviet missile defense system is believed to be based on a long-range radar system, which can detect and track missiles at a distance of 1,000 miles.

Alma Stach, a Soviet expert on the subject, said that the Soviet Union has developed a missile defense system, but there is no agreement on what they are for. The Soviet missile defense system appears to be designed to intercept a single missile, or a small number of missiles, in a single stage. The Soviet missile defense system is believed to be based on a long-range radar system, which can detect and track missiles at a distance of 1,000 miles.

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Other United States tests in the Pacific, notably the one in 1964, showed that the Soviet Union has developed a missile defense system, but there is no agreement on what they are for. The Soviet missile defense system appears to be designed to intercept a single missile, or a small number of missiles, in a single stage.

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Experts agree that in the future, the Soviet Union will develop a missile defense system, but there is no agreement on what they are for. The Soviet missile defense system appears to be designed to intercept a single missile, or a small number of missiles, in a single stage.

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with little fallout near the explosion; thus, more fine-tuned missiles, as occurred in some of warheads and more missiles. Some observers believe that the Soviet tests of their giant would be required to achieve the same expected results of a multiple individually defended country of such defense systems would be complicated by the fact that the Soviet Union has developed a missile defense system, but there is no agreement on what they are for.

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